Text: *Physics* by Giancoli				*SP211 Course Outline--Fall 2002*			
		TEXT--CH		SEC	TOPIC	LAB	MATH**
Week 1	M	Tu			Administration, Diagnostic Exams, etc.	Introduction to	
(19-23 Aug.)	W	Tu/Th	1	1-6	Measurement, Units, Estimating	Laboratory	6.5
	F	Th	2	1-4	1D Velocity and Acceleration		2.1
Week 2	M	Tu	2	5-7	1D Constant Acceleration	1D Kinematics	2.6
(26-30 Aug.)	W	Tu/Th	3	1-5	Vectors	via Graphs	9.2
	F	Th	3	6-8	Projectile Motion		10.4
Week 3	M				*Labor Day*	2D Kinematics	
(2-6 Sept.)	W	Tu	3	9-10	Circular Motion, Relative Velocity		10.4
	F	Th	4	1-5	Forces and Newton's Laws		6.5
Week 4	M	Tu	4	6	Weight, Normal Force and Tension	Newton's Laws	9.2
(9-13 Sept.)	W	Tu/Th	4	7-8	Free-Body Diagrams		
	F	Th	5	1	Friction		
Week 5	M	Tu	5	2-3	Circular Motion (Dynamics)	Centripetal Force	10.4
(16-20 Sept.)	W	Tu	6	1-3	Newton's Law of Universal Gravitation		6.5
Lecture demonstration on Thursday, 19 Sept. or Friday, 20 Sept. in Michelson 117							
Week 6	M	Tu	6	4-5	Kepler's Laws and Orbital Motion	Open	10.4
(23-27 Sept.)	W	Tu/Th			Time reserved for exam. Actual date to be announced.		
	F	Th	7	1-3	Work		6.5
Week 7	M	Tu	7	4	Kinetic Energy	Work and Energy	13.3
(30 Sept.-4 Oct.)	Tu	Tu			*Six Week Grades Due*		
	W	Tu/Th	8	1-2	Potential Energy		13.3
	F	Th	8	3-6	Conservation of Mechanical Energy		13.3
Week 8	M	Tu	8	7-8	Escape Velocity, Power	Open	6.5
(7-11 Oct.)	W	Tu/Th	9	1-2	Linear Momentum		
	F	Th	9	3	Collisions and Impulse		
Week 9	M	*Columbus Day* (Tuesday is a Monday Schedule.)				Momentum and	
(14-18 Oct.)	W	Th	9	4-5	Elastic Collisions	1D Collisions	
	F	Th	9	6-7	Inelastic Collisions		
Week 10	M	Tu	9	8-9	Center of Mass	2D Collisions and	12.5,12.7
(21-25 Oct.)	W	Tu/Th			Time reserved for exam.	Center of Mass	
	F	Th	10	1-3	Rotational Kinematics		10.4
Week 11	M	Tu	10	4-5	Torque	Rotational	9.4
(28 Oct.-1 Nov.)	W	Tu	10	6-7	Rotational Dynamics	Kinematics and	10.4
Lecture demonstration on Thursday, 31 Oct. or Friday, 1 Nov. in Michelson 117						Dynamics	
Week 12	M	Tu	10	9	Conservation of Angular Momentum	Open	10.4
(4-8 Nov.)	W	Tu/Th	13	1-4	Pressure		6.5
	F	Th	13	6	Buoyancy and Archimedes' Principle		
Week 13	M				*Veteran's Day*	Simple Harmonic	
(11-15 Nov.)	Tu	Tu			*Twelve-week Grades Due*	Motion	
	W	Tu	13	7-9	Bernoulli's Equation		
	F	Th	14	1-3,5	Oscillations		6.5
Week 14	M	Tu	14	7,8	Damped and Forced Oscillations	Open	
(18-22 Nov.)	W	Tu/Th	15	1-2,4	Waves		
	F	Th	15	6-9	Reflection and Transmission, Resonance		
Week 15	M	Tu	16	1,3,4	Sound, Guitars, Organ Pipes	Standing Waves	
(25-29 Nov.)	W	Tu	16	6,7	Beats, Doppler Effect	on a String	
					Thanksgiving		
Week 16	M	Tu	16	8	Shock Waves and the Sonic Boom	Open	
(2-6 Dec.)	W	Tu			Review		
Lecture demonstration on Thursday, 5 Dec. or Friday, 6 Dec. in Michelson 117							
The representative problems for the course are the alternate odd problems in the text by Giancoli e.g. 3, 7, 11, …							
**MATH refers to the text Calculus: Concepts and Context by J. Stewart e.g. 6.5 refers to chapter 6, section 5.*							